```
                   10      .OPT LIST
                   20 ;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
                   30 ;          QUICK MENU  -Final
                   40 ;           REV 3.2 (1984)
                   50 ;             by  Carlos Reyes
                   60 ;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
                   70 ;
                   80 ;ZERO PAGE VARIABLES
                   90 ;
    =0043          0100 WORD =   $43       ;STARTING ADDR OF BLOCK BEING READ
    =0043          0110 COUNT = $43       ;# OF ENTRIES IN DIRECTORY
    =0045          0120 WORD1 = $45       ;ENDING ADDR
    =0047          0130 NXTSECT = $47     ;NEXT SECTOR TO BE READ FROM FILE
    =0049          0140 XSAVE = $49       ;TEMP STORAGE FOR X REG
                   0150 ;
                   0160 ;OS EQUATES
                   0170 ;
    =0006          0180 TRAMSZ = 6
    =0009          0190 BOOT? = 9
    =0012          0200 RTCLOK = $12
    =002A          0210 ICAX1Z = $2A
    =002B          0220 ICAX2Z = $2B
    =0058          0230 SAVMSC = 88
    =0244          0240 COLDST = $0244
    =02E0          0250 RUNAD = $02E0
    =02E2          0260 INITAD = $02E2
    =0301          0270 DUNIT = $0301
    =0302          0280 DCOMND = $0302
    =0303          0290 DSTATS = $0303
    =0304          0300 DBUFLO = $0304
    =0305          0310 DBUFHI = $0305
    =030A          0320 DAUX1 = $030A
    =030B          0330 DAUX2 = $030B
    =03F8          0340 BASICFLG = $03F8 ;(??) TELLS THE OS TO SWITCH OUT BASIC
                   0350 ;*NOTE: THIS IS ONLY VALID ON THE NEW XL SERIES
                   0360 ;
    =E400          0370 VECTORS = $E400
    =E453          0380 DSKINV = $E453
    =E459          0390 SIOV =   $E459
    =E474          0400 WARMSV = $E474
                   0410 ;
                   0420 ;BINARY HEADER
                   0430 ;
0000               0440      *=   $0700
                   0450 ;
0700               0460 START
0700 0003          0470      .BYTE 0,3
0702 0007          0480      .WORD START,INIT
0704 0607
                   0490 ;
                   0500 ;INIT THE MENU
                   0510 ;
0706               0520 INIT
0706 A001          0530      LDY #1
0708 8409          0540      STY BOOT?   ;DISK BOOTED OK
070A 8C0103        0550      STY DUNIT   ;DRIVE #1
070D 842B          0560      STY ICAX2Z  ;GR.1
070F 8C0B03        0570      STY DAUX2   ;($169)
0712 8CF803        0580      STY BASICFLG ;SWITCH OUT BASIC ON THE NEXT WARM START
                   0590 ;
0715 88            0600      DEY
```

```
0716 8C4402      0610        STY COLDST   ;Y=0
                 0620 ;
0719 A90C        0630        LDA #$0C
071B 852A        0640        STA ICAX1Z
                 0650 ;
071D A210        0660        LDX #$10      ;OPEN #6,12,1,"S:" or GR.1+16
071F 203808      0670        JSR USEVECT
                 0680 ;
0722 A559        0690        LDA SAVMSC+1 ;GET ADDR OF DLIST
0724 8DAD07      0700        STA DLPTR+2
                 0710 ;
0727 A968        0720        LDA # <361-1
0729 8D0A03      0730        STA DAUX1
                 0740 ;
072C A506        0750        LDA TRAMSZ   ;SHOW IF CARTRIDGE IS PRESENT
072E F004        0760        BEQ LOOP
0730 A94A        0770        LDA #10+64   ;"*"
0732 9158        0780        STA (SAVMSC),Y ;Y=1
                 0790 ;
                 0800 ;LOOP: READ THE DIRECTORY
                 0810 ;
0734             0820 LOOP
0734 A952        0830        LDA #'R
0736 A208        0840        LDX # >BUFFER
0738 A0B0        0850        LDY # <BUFFER
                 0860 ;
073A 202608      0870        JSR CALLDSK
073D A200        0880        LDX #0
                 0890 ;
                 0900 ;LOOP1: PROCESS NEXT ENTRY
                 0910 ;
073F             0920 LOOP1
073F BDB008      0930        LDA BUFFER,X ;TEST FLAG BYTE
0742 F048        0940        BEQ WAIT     ;NEVER USED
                 0950 ;
0744 303C        0960        BMI NEXT     ;DELETED
0746 4A          0970        LSR A
0747 B039        0980        BCS NEXT     ;OPEN FOR OUTPUT
                 0990 ;
                 1000 ;FOUND A GOOD ENTRY
                 1010 ;
0749 A443        1020        LDY COUNT    ;SAVE THE STARTING ADDR FOR LATER
074B BDB308      1030        LDA BUFFER+3,X
074E 998008      1040        STA SECTLO,Y
0751 BDB408      1050        LDA BUFFER+4,X
0754 999808      1060        STA SECTHI,Y
                 1070 ;
0757 98          1080        TYA          ;PRINT THE LETTER FOR THE ENTRY
0758 69A1        1090        ADC #33+128 ;ADD THE OFFSET (C=0)
075A A003        1100        LDY #3
075C 9158        1110        STA (SAVMSC),Y
                 1120 ;
075E C8          1130        INY
                 1140 ;
                 1150 ;LOOP2: MOVE FILENAME TO SCREEN
                 1160 ;
075F             1170 LOOP2
075F C8          1180        INY
0760 E8          1190        INX
0761 BDB408      1200        LDA BUFFER+5-1,X
0764 E91F        1210        SBC #32-1    ;(C=0)
```

```
0766  9158        1220        STA (SAVMSC),Y
0768  C00F        1230        CPY #5+11-1
076A  90F3        1240        BCC LOOP2
                  1250  ;
076C  A558        1260        LDA SAVMSC
076E  6913        1270        ADC #20-1    ;CARRY IS SET FROM CPY
0770  8558        1280        STA SAVMSC
0772  9002        1290        BCC SKIP
0774  E659        1300        INC SAVMSC+1
                  1310  ;
0776              1320  SKIP
0776  E643        1330        INC COUNT
0778  A543        1340        LDA COUNT
077A  C918        1350        CMP #24      ;GOT 24 ENTRIES ALREADY?
077C  F00E        1360        BEQ WAIT     ;YES, EXIT
                  1370  ;
077E  8A          1380        TXA          ;EQUALIZE X REG
077F  69F5        1390        ADC #-11     ;CARRY IS CLEARED FROM 'CMP #24'
0781  AA          1400        TAX
                  1410  ;
                  1420  ;NEXT: POINT TO NEXT ENTRY IN DIRECTORY SECTOR
                  1430  ;
0782              1440  NEXT
0782  8A          1450        TXA
0783  18          1460        CLC
0784  6910        1470        ADC #16
0786  AA          1480        TAX
                  1490  ;
0787  0A          1500        ASL A        ;AT END OF SECTOR?
0788  90B5        1510        BCC LOOP1    ;NO, GET NEXT ENTRY
078A  B0A8        1520        BCS LOOP     ;YES, GET NEXT DIR SECTOR
                  1530  ;
                  1540  ;WAIT: GET KEY FROM USER
                  1550  ;
078C              1560  WAIT
078C  A224        1570        LDX ##$20+4
078E  203808      1580        JSR USEVECT
                  1590  ;
0791  C91B        1600        CMP #27      ;ESCAPE KEY?
0793  F075        1610        BEQ COPYIT   ;YES, COPY MENU
                  1620  ;
0795  E941        1630        SBC #'A      ;IF KEY>27 THEN C=1, SO WE DON'T SET IT
0797  C543        1640        CMP COUNT
0799  B0F1        1650        BCS WAIT
                  1660  ;
                  1670  ;PREPARE TO LOAD IN THE FILE
                  1680  ;
079B  AA          1690        TAX
079C  BD8008      1700        LDA SECTLO,X ;GET STARTING ADDR FROM TABLES
079F  8547        1710        STA NXTSECT
07A1  BD9808      1720        LDA SECTHI,X
07A4  8548        1730        STA NXTSECT+1
                  1740  ;
07A6  8A          1750        TXA
07A7  F002        1760        BEQ DLPTR    ;HANDLE LMS PROBLEM
07A9  E8          1770        INX
07AA  E8          1780        INX
07AB              1790  DLPTR
07AB  FE63BD      1800        INC $BD60+3,X
                  1810  ;
07AE  205008      1820        JSR CALLSIO
```

```
                        1830 ;
  07B1 CA              1840       DEX
                        1850 ;
  07B2 2DB108          1860       AND BUFFER+1 ;IS THIS A BINARY LOADABLE FILE?
  07B5 C9FF            1870       CMP #$FF
  07B7 D06A            1880       BNE REBOOT   ;NO, RUN THE MENU AGAIN
                        1890 ;
  07B9 A514            1900       LDA RTCLOK+2 ;WAIT FOR VBLANK TO POINT TO THE SCREEN
  07BB                1910 LOOP3
  07BB C514            1920       CMP RTCLOK+2
  07BD F0FC            1930       BEQ LOOP3
                        1940 ;
                        1950 ;DO THE ACTUAL BINARY LOAD
                        1960 ;
  07BF                1970 PUTNXT
  07BF 204108          1980       JSR GETBYTE ;GET THE STARTING ADDR FOR THE BLOCK
  07C2 8543            1990       STA WORD
  07C4 204108          2000       JSR GETBYTE
  07C7 8544            2010       STA WORD+1
  07C9 2543            2020       AND WORD
  07CB C9FF            2030       CMP #$FF
  07CD F0F0            2040       BEQ PUTNXT
                        2050 ;
  07CF 204108          2060       JSR GETBYTE ;GET THE ENDING ADDRESS
  07D2 8545            2070       STA WORD1
  07D4 204108          2080       JSR GETBYTE
  07D7 8546            2090       STA WORD1+1
                        2100 ;
                        2110 ;READ A BLOCK OF DATA
                        2120 ;
  07D9                2130 RDBLK
  07D9 204108          2140       JSR GETBYTE
  07DC 9143            2150       STA (WORD),Y
                        2160 ;
  07DE E643            2170       INC WORD
  07E0 D002            2180       BNE SKIP1
  07E2 E644            2190       INC WORD+1
                        2200 ;
  07E4                2210 SKIP1
  07E4 A545            2220       LDA WORD1
  07E6 C543            2230       CMP WORD
  07E8 A546            2240       LDA WORD1+1
  07EA E544            2250       SBC WORD+1
  07EC B0EB            2260       BCS RDBLK    ;GO BACK IF <=
                        2270 ;
  07EE ADE202          2280       LDA INITAD
  07F1 0DE302          2290       ORA INITAD+1
  07F4 F0C9            2300       BEQ PUTNXT
                        2310 ;
                        2320 ;INIT THE PROGRAM
                        2330 ;
  07F6 8649            2340       STX XSAVE
  07F8 200708          2350       JSR GOINIT
  07FB A649            2360       LDX XSAVE
                        2370 ;
  07FD A000            2380       LDY #0       ;CLEAR Y REG
  07FF 8CE202          2390       STY INITAD
  0802 8CE302          2400       STY INITAD+1
  0805 F0B8            2410       BEQ PUTNXT   ;FORCED BRANCH
                        2420 ;
  0807                2430 GOINIT
```

```
0807  6CE202      2440      JMP (INITAD)
                  2450  ;
                  2460  ;WRITE THE MENU TO THE DISK
                  2470  ;
080A              2480  COPYIT
080A  88          2490      DEY
080B  8C0A03      2500      STY DAUX1      ;Y=0
080E  8C0B03      2510      STY DAUX2
0811  A957        2520      LDA #'W
0813  A207        2530      LDX #7
0815  202608      2540      JSR CALLDSK
                  2550  ;
0818  A080        2560      LDY #$80
081A  202C08      2570      JSR CALLDSK2
                  2580  ;
081D  A208        2590      LDX #8
081F  88          2600      DEY
0820  202908      2610      JSR CALLDSK1
                  2620  ;
0823              2630  REBOOT
0823  4C74E4      2640      JMP WARMSV
                  2650  ;
                  2660  ;CALL THE RESIDENT DISK INTERFACE
                  2670  ;
0826              2680  CALLDSK
0826  8D0203      2690      STA DCOMND
0829              2700  CALLDSK1
0829  8E0503      2710      STX DBUFHI
082C              2720  CALLDSK2
082C  8C0403      2730      STY DBUFLO
                  2740  ;
082F  EE0A03      2750      INC DAUX1
                  2760  ;
0832              2770  AGAIN
0832  2053E4      2780      JSR DSKINV
0835  30FB        2790      BMI AGAIN
0837  60          2800      RTS
                  2810  ;
                  2820  ;USE THE RESIDENT HANDLERS
                  2830  ;
0838              2840  USEVECT
0838  BD01E4      2850      LDA VECTORS+1,X
083B  48          2860      PHA
083C  BD00E4      2870      LDA VECTORS,X
083F  48          2880      PHA
0840  60          2890      RTS
                  2900  ;
                  2910  ;GET THE NEXT BYTE FROM THE FILE
                  2920  ;
0841              2930  GETBYTE
0841  E07D        2940      CPX #$7D      ;(# OF DATA BYTES IN SECTOR)
0843  F005        2950      BEQ GETSECT
                  2960  ;
0845              2970  GIVEBYTE
0845  BDB008      2980      LDA BUFFER,X
0848  E8          2990      INX
0849  60          3000      RTS
                  3010  ;
084A              3020  GETSECT
084A  A547        3030      LDA NXTSECT ;AT THE EOF?
084C  0548        3040      ORA NXTSECT+1
```

```
084E F02D        3050        BEQ DONE        ;YES, RUN THE PROGRAM
                 3060 ;
                 3070 ;GET THE NEXT DATA SECTOR
                 3080 ;
0850             3090 CALLSIO
0850 A940        3100        LDA #$40
0852 8D0303      3110        STA DSTATS
                 3120 ;
0855 A547        3130        LDA NXTSECT
0857 8D0A03      3140        STA DAUX1
085A A548        3150        LDA NXTSECT+1
085C 8D0B03      3160        STA DAUX2
                 3170 ;
085F 2059E4      3180        JSR SIOV
0862 30EC        3190        BMI CALLSIO ;IF ERROR, TRY AGAIN
                 3200 ;
                 3210 ;PROCESS THE LINK
                 3220 ;
0864 AD2D09      3230        LDA BUFFER+125
0867 2903        3240        AND #3
0869 8548        3250        STA NXTSECT+1
                 3260 ;
086B AD2E09      3270        LDA BUFFER+126
086E 8547        3280        STA NXTSECT
                 3290 ;
0870 AD2F09      3300        LDA BUFFER+127
0873 297F        3310        AND #$7F
0875 8D4208      3320        STA GETBYTE+1
                 3330 ;
0878 A200        3340        LDX #0
087A 88          3350        DEY
                 3360 ;
087B F0C8        3370        BEQ GIVEBYTE ;FORCED BRANCH
                 3380 ;
                 3390 ;RUN THE PROGRAM
                 3400 ;
087D             3410 DONE
087D 6CE002      3420        JMP (RUNAD)
                 3430 ;
                 3440 ;STARTING SECTOR TABLES
                 3450 ;
0880             3460 SECTLO *= *+24
0898             3470 SECTHI *= *+24
                 3480 ;
                 3490 ;SECTOR BUFFER
                 3500 ;
08B0             3510 BUFFER *= *+128
```

```
                 3520        .OPT LIST
```

```
 0832 AGAIN          =03F8 BASICFLG       =0009 BOOT?          0880 BUFFER          0826 CALLDSK
 0829 CALLDSK1        082C CALLDSK2        0850 CALLSIO       =0244 COLDST           080A COPYIT
=0043 COUNT          =030A DAUX1          =030B DAUX2         =0305 DBUFHI          =0304 DBUFLO
=0302 DCOMND          07AB DLPTR           087D DONE         =E453 DSKINV          =0303 DSTATS
=0301 DUNIT           0841 GETBYTE         084A GETSECT        0845 GIVEBYTE        0807 GOINIT
=002A ICAX1Z         =002B ICAX2Z          0706 INIT         =02E2 INITAD           0734 LOOP
 073F LOOP1           075F LOOP2           07BB LOOP3          0782 NEXT           =0047 NXTSECT
 07BF PUTNXT          07D9 RDBLK           0823 REBOOT       =0012 RTCLOK          =02E0 RUNAD
=0058 SAVMSC          0898 SECTHI          0880 SECTLO       =E459 SIOV            0776 SKIP
 07E4 SKIP1           0700 START          =0006 TRAMSZ         0838 USEVECT        =E400 VECTORS
 078C WAIT           =E474 WARMSV         =0043 WORD         =0045 WORD1           =0049 XSAVE
```